

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of

Newns, et al.

Serial No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Filing Date: Concurrently Herewith

Examiner: Unknown

**For: A GRADIOMETER-BASED FLUX QUBIT FOR QUANTUM COMPUTING AND  
METHOD THEREFOR**

Honorable Commissioner of Patents  
Alexandria, Virginia 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

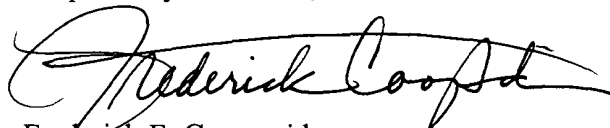
Under the provisions of 37 CFR §1.97 through §1.99 and pursuant to applicant's duty of disclosure under 37 CFR §1.56, applicant respectfully brings the following documents listed on the attached form PTO-1449, to the attention of the Examiner in charge of the above-identified application. Copies of the listed documents are provided herewith for the convenience of the Examiner.

This citation does not constitute an admission that the references are relevant or material to the claims. They are only cited as constituting related art of which the applicant is aware.

It is respectfully requested that the listed references be considered by the Examiner and formally made of record in this application.

Please charge any deficiencies in fees and credit any overpayment of fees to Assignee's Deposit Account No. 50-0510.

Respectfully submitted,



Frederick E. Cooperrider  
Registration No. 36,769

Date: 8/27/03

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# **INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

ATTY DOCKET NO.

**YOR920030106US1**

SERIAL NO.

**None Yet Assigned**

**Newns, et al.**

FILING

**Concurrently herewith**

GROUP

**None Yet Assigned**

## **U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## **FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

## **OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

			Chiorescu, et al., "Coherent Quantum Dynamics of a Superconducting Flux Qubit", March 21, 2003, Science, Vol. 299, pp. 1869-1871.
			Vion, et al., "Manipulating the Quantum State of an Electrical Circuit", May 3, 2002, Science, Vol. 296, pp. 886-889.

**EXAMINER**

**DATE CONSIDERED**

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.